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We claim:

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1. A programmable method of managing and tracking blood products between a plurality of remote patient facilities and a central blood testing facility comprising the steps of:

- 5                                    obtaining a blood specimen from each patient who requires a blood reserve;
- selecting a blood product for cross-matching with each said patient specimen;
- 10                                  cross-matching each said patient specimen and said blood product to determine their compatibility with one another; and
- preparing a patient identification database of each of said blood products and patient specimens determined to be compatible and
- 15                                  storing information in said database correlating each of said blood products and patient specimens.

2. The method according to claim 1 wherein the step of storing information is further characterized by storing each patient's special needs, prior transfusion reaction history,

5                                  autologous blood availability, directed blood components, blood type and patient specimen expiration date.

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3. The method according to claim 1 including the step of assigning said blood products and said patient specimens to a location within said facility and tracking any movement of specimens to other locations.

4. The method according to claim 1 including the step of determining types of blood attributes of each of said blood products and said patient specimens.

5. The method according to claim 1 including the step of determining compatibility of said blood product and said patient specimen by comparing the types of blood attributes thereof.

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6. The method according to claim 1 further characterized by cross-matching a segment of said blood product and said patient specimen at said facility, assigning said segment and said patient specimen to a location in said facility, and recording said location in said database.

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7. The method according to claim 1 including the step of selectively displaying the absence or presence of each item of information stored including prior transfusion reaction history, autologous blood availability, directed

blood components, blood type and patient specimen expiration date.

5 8. The method according to claim 1 wherein the step of cross-matching includes the step of producing a product identification tag and attaching to each blood component found to be compatible.

5 9. The method according to claim 9 including the step of comparing the antigens and antibodies in each of said blood products and said patient specimens to determine whether each is present in each segment of said blood product and said patient specimen tested and storing said information in said database.

5 10. In a programmable blood management system for managing and tracking blood products between a plurality of hospitals and a central blood test facility wherein a database is provided for recording information and a screen is provided for displaying said information, the method comprising the steps of:

10 obtaining a blood specimen from each patient requiring a blood reserve for possible transfusion;

assigning a segment of a blood

product for cross-matching;  
cross-matching each said segment  
and said patient specimen at said facility to  
15 determine their compatibility with one another;  
identifying each said segment and  
said patient specimen determined to be compatible  
with patient identification information; and  
recording said patient  
20 identification information on said database.

11. In a system according to claim 10  
further characterized by determining blood type  
attributes of each of said blood products and said  
patient specimens prior to said cross-matching.

12. In a system according to claim 10  
including the step of testing the compatibility of  
said blood type attributes prior to said cross-  
matching.

13. In a system according to claim 12  
characterized by periodically updating said blood  
type attributes and recording said information in  
said database.

14. In a system according to claim 10  
including the step of tracking the location of  
each said segment and said patient specimen by

recording its movement between said test facility and patient location.

15. In a system according to claim 10 including the step of recording blood attributes of each said patient specimen in said database.

16. In a system according to claim 10 including the step of recording prior transfusion reaction history of each said patient in said database.

17. In a system according to claim 10 including the step of recording autologous blood availability in said database.

18. In a system according to claim 10 including the step of recording blood type of each said blood product and said patient specimen.

19. In a system according to claim 10 including the step of recording the specimen expiration date of each said segment and said patient specimen.

20. A system for managing blood products and tracking their movement between a central blood test facility and a plurality of

hospitals wherein a computer is provided for  
processing data including a screen for displaying  
information, said system comprising:

first means including a database  
for entering information pertaining to each  
patient requiring a blood reserve;

second means for entering blood  
type information for a blood specimen from each  
said patient;

third means for recording a blood  
type for a blood product assigned to each said  
patient; and

fourth means for recording on said  
database results of cross-matching of each said  
patient specimen and said blood product.

21. The system according to claim 20  
including fifth means for recording special needs  
of each said patient on said database including  
means for indicating the presence of said special  
needs.

22. The system according to claim 20  
including sixth means for recording the prior  
transfusion reaction history of each said patient  
including means for indicating the presence of a  
prior transfusion reaction.

23. The system according to claim 20 including seventh means for recording autologous blood availability and its location for each said patient including means for indicating the presence of an autologous donation for said patient.

24. The system according to claim 20 including eighth means for recording directed blood donations for each said patient including means for indicating the presence of said directed blood donations.

25. The system according to claim 20 including ninth means for recording the expiration date of each said patient specimen on said database including means for indicating the expiration date of each said blood specimen which is current and non-expired.

26. The system according to claim 20 including tenth means for comparing blood attributes of each said patient specimen and said blood product.

27. The system according to claim 20 including means for cross-matching said segment and said patient specimen at said facility and

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means for tracking ~~movement~~ of each said segment  
and said patient specimen between said facility and  
said hospitals.

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28. The system according to claim 20  
including eleventh means for recording components  
of said blood products which have been reserved  
for said patient including means for indicating  
the presence of said reserved components in  
inventory.

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29. A programmable blood management  
system for managing and tracking blood products  
for use between a central blood test facility and  
one or more remote patient facilities wherein a  
computer is provided for processing data, a  
database is provided for recording information and  
a screen is provided for displaying said  
information recorded comprising:

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means for recording information  
identifying each patient requiring a blood reserve  
on said database;

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means for obtaining a blood  
specimen from each said patient;  
means for assigning a segment of a  
blood product for cross-matching;

means for cross-matching each said  
segment and said patient specimen at said facility

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to determine their compatibility with one another;

means for identifying each said  
segment and said patient specimen determined to be  
compatible; and

means for assigning said segment  
and said patient specimen to a location in said  
facility.

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30. A system according to claim 29  
including means for entering blood attributes of  
said blood specimen and said segment on said  
database; and means for comparing said blood  
attributes to determine their compatability.

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